



**STATE OF TENNESSEE
DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL
Lab Services - Jackson Regional Lab
Jackson, TN 38301
731-426-0686

TDH: Lab Services KRL
Lab Services - Knoxville Regional Lab
Knoxville, TN 37920
865-549-5201

TDH: Lab Services NCL
Lab Services - Nashville Central Lab
Nashville, TN 37243
615-262-6300

Sent To: Greg Denton
TDEC-WPC
6th Floor, L & C Tower Annex
401 Church Street
Nashville, TN 37243-1534

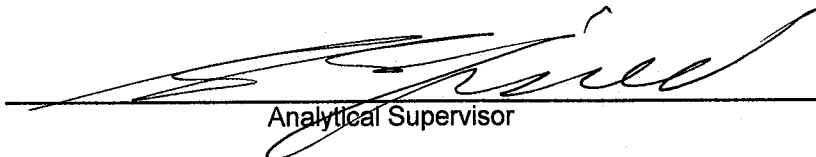
Michael Atchley
TDEC-WPC
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002379
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

This is to certify that the following results were determined using
good laboratory practices and in accordance with federal or state
approved methodologies.


Analytical Supervisor

Lab-Sample Number: K00002379001
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 05/14/2009 09:55
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 8.25 pH Units
Chlorine, residual:
Conductivity: 57 uMHO
Temperature: 18.02
Dissolved Oxygen: 10.06 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	13	mg/L	3.8	10	M Chen	5/19/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	19	mg/L	0.7	1	P Leathers	5/19/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/15/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	5/15/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002379002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 05/14/2009 10:52
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.52 pH Units
Chlorine, residual:
Conductivity: 53 uMHO
Temperature: 18.14
Dissolved Oxygen: 9.72 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	16	mg/L	3.8	10	M Chen	5/19/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	18	mg/L	0.7	1	P Leathers	5/19/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/15/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	5/15/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002379003
Project Name: TVA-Ash Spill
Sample Description: Approx. 100' d/s from middle dredge point
Sampler Project Name: TVA Ash Spill
Project Site No.: 2A
Station No.: Dredge Plume
Date/Time Collected: 05/14/2009 11:05
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.30 pH Units
Chlorine, residual:
Conductivity: 54 uMHO
Temperature: 17.81
Dissolved Oxygen: 9.49 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	17	mg/L	3.8	10	M Chen	5/19/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	20	mg/L	0.7	1	P Leathers	5/19/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/15/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	16	mg/L	10	10	A Peebles	5/15/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002379004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA Ash Spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 05/14/2009 11:18
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.11 pH Units
Chlorine, residual:
Conductivity: 51 uMHO
Temperature: 17.43
Dissolved Oxygen: 9.39 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	15	mg/L	3.8	10	M Chen	5/19/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	16	mg/L	0.7	1	P Leathers	5/19/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/15/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	5/15/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002379005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA Ash Spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 05/14/2009 11:26
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.18 pH Units
Chlorine, residual:
Conductivity: 65 uMHO
Temperature: 17.25
Dissolved Oxygen: 9.32 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	63	mg/L	3.8	10	M Chen	5/19/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	58	mg/L	0.7	1	P Leathers	5/19/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/15/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peeples	5/15/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002379006
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA Ash Spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 05/14/2009 11:39
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.65 pH Units
Chlorine, residual:
Conductivity: 186 uMHO
Temperature: 15.60
Dissolved Oxygen: 10.25 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	87	mg/L	3.8	10	M Chen	5/19/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	76	mg/L	0.7	1	P Leathers	5/19/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/15/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	5/15/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002379007
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA Discharge Point
Sampler Project Name: TVA Ash Spill
Project Site No.: 5A
Station No.: KingAshOutF2
Date/Time Collected: 05/14/2009 11:47
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.52 pH Units
Chlorine, residual:
Conductivity: 117 uMHO
Temperature: 18.94
Dissolved Oxygen: 9.28 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	41	mg/L	3.8	10	M Chen	5/19/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	41	mg/L	0.7	1	P Leathers	5/19/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/15/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	10	mg/L	10	10	A Peeples	5/15/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number:	K00002379008	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.72 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley R	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	228 uMHO
Project Site No.:	6	Temperature:	12.96
Station No.:	CLINC004.5RO	Dissolved Oxygen:	10.68 mg/L
Date/Time Collected:	05/14/2009 12:03	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	05/14/2009 13:55		
Received By:	E McCrary		

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	110	mg/L	3.8	10	M Chen	5/19/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	86	mg/L	0.7	1	P Leathers	5/19/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/15/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	5/15/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected



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DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORIES**

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Michael Atchley
TDEC-WPC
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002379
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

This is to certify that the following results were determined using
good laboratory practices and in accordance with federal or state
approved methodologies.



Analytical Supervisor

Lab-Sample Number: K00002379001
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 05/14/2009 09:55
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 8.25 pH Units
Chlorine, residual:
Conductivity: 57 uMHO
Temperature: 18.02
Dissolved Oxygen: 10.06 mg/L
Other:
Flow: CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/15/2009				S Ufegbu	5/15/2009

TEST: ICP			METHOD: EPA 200.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	150	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	74	µg/L	6.4	10	A Wilson	5/23/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/23/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/23/2009
Barium	19	µg/L	2.5	5	A Wilson	5/23/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/23/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/23/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/23/2009
Cobalt	0.19J	µg/L	0.04	1	A Wilson	5/23/2009
Copper	3.2	µg/L	0.38	1	A Wilson	5/23/2009
Lead	0.19J	µg/L	0.10	1	A Wilson	5/23/2009
Manganese	24	µg/L	0.42	1	A Wilson	5/23/2009
Nickel	0.86J	µg/L	0.25	1	A Wilson	5/23/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/23/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/27/2009
Thallium	0.071J	µg/L	0.03	1	A Wilson	5/23/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/23/2009
Zinc	4.7J	µg/L	1.9	5	A Wilson	5/23/2009

Lab-Sample Number: K00002379001
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 05/14/2009 09:55
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 8.25 pH Units
Chlorine, residual:
Conductivity: 57 uMHO
Temperature: 18.02
Dissolved Oxygen: 10.06 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.04J	µg/L	0.029	0.2	A Bass	5/20/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002379002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 05/14/2009 10:52
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.52 pH Units
Chlorine, residual:
Conductivity: 53 uMHO
Temperature: 18.14
Dissolved Oxygen: 9.72 mg/L
Other:
Flow: CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/15/2009				S Ufegbu	5/15/2009

TEST: ICP			METHOD: EPA 200.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	270	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	180	µg/L	6.4	10	A Wilson	5/23/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/23/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/23/2009
Barium	23	µg/L	2.5	5	A Wilson	5/23/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/23/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/23/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/23/2009
Cobalt	0.27J	µg/L	0.04	1	A Wilson	5/23/2009
Copper	0.99J	µg/L	0.38	1	A Wilson	5/23/2009
Lead	0.27J	µg/L	0.10	1	A Wilson	5/23/2009
Manganese	60	µg/L	0.42	1	A Wilson	5/23/2009
Nickel	1.0	µg/L	0.25	1	A Wilson	5/23/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/23/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/27/2009
Thallium	0.040J	µg/L	0.03	1	A Wilson	5/23/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/23/2009
Zinc	3.9J	µg/L	1.9	5	A Wilson	5/23/2009

Lab-Sample Number: K00002379002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 05/14/2009 10:52
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.52 pH Units
Chlorine, residual:
Conductivity: 53 uMHO
Temperature: 18.14
Dissolved Oxygen: 9.72 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Bass	5/20/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002379003
Project Name: TVA-Ash Spill
Sample Description: Approx. 100' d/s from middle dredge point
Sampler Project Name: TVA Ash Spill
Project Site No.: 2A
Station No.: Dredge Plume
Date/Time Collected: 05/14/2009 11:05
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.30 pH Units
Chlorine, residual:
Conductivity: 54 uMHO
Temperature: 17.81
Dissolved Oxygen: 9.49 mg/L
Other:
Flow: CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/15/2009				S Ufegbu	5/15/2009

TEST: ICP			METHOD: EPA 200.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	440	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	610	µg/L	64.0	100	A Wilson	5/23/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/23/2009
Arsenic	2.5J	µg/L	0.93	5	A Wilson	5/23/2009
Barium	38	µg/L	2.5	5	A Wilson	5/23/2009
Beryllium	0.12J	µg/L	0.11	1	A Wilson	5/23/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/23/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/23/2009
Cobalt	0.59J	µg/L	0.04	1	A Wilson	5/23/2009
Copper	2.7	µg/L	0.38	1	A Wilson	5/23/2009
Lead	0.96J	µg/L	0.10	1	A Wilson	5/23/2009
Manganese	72	µg/L	0.42	1	A Wilson	5/23/2009
Nickel	1.7	µg/L	0.25	1	A Wilson	5/23/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/23/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/27/2009
Thallium	0.070J	µg/L	0.03	1	A Wilson	5/23/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/23/2009
Zinc	4.8J	µg/L	1.9	5	A Wilson	5/23/2009

Lab-Sample Number: K00002379003
Project Name: TVA-Ash Spill
Sample Description: Approx. 100' d/s from middle dredge point
Sampler Project Name: TVA Ash Spill
Project Site No.: 2A
Station No.: Dredge Plume
Date/Time Collected: 05/14/2009 11:05
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.30 pH Units
Chlorine, residual:
Conductivity: 54 uMHO
Temperature: 17.81
Dissolved Oxygen: 9.49 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Bass	5/20/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002379004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA Ash Spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 05/14/2009 11:18
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.11 pH Units
Chlorine, residual:
Conductivity: 51 uMHO
Temperature: 17.43
Dissolved Oxygen: 9.39 mg/L
Other:
Flow: CFS

TEST: Digestion Metals
METHOD: EPA 200.2

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/15/2009				S Ufegbu	5/15/2009

TEST: ICP
METHOD: EPA 200.7

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	280	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS
METHOD: EPA 200.8

ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	180	µg/L	6.4	10	A Wilson	5/23/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/23/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/23/2009
Barium	26	µg/L	2.5	5	A Wilson	5/23/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/23/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/23/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/23/2009
Cobalt	0.30J	µg/L	0.04	1	A Wilson	5/23/2009
Copper	1.9	µg/L	0.38	1	A Wilson	5/23/2009
Lead	0.32J	µg/L	0.10	1	A Wilson	5/23/2009
Manganese	55	µg/L	0.42	1	A Wilson	5/23/2009
Nickel	1.1	µg/L	0.25	1	A Wilson	5/23/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/23/2009
Silver	0.041J	µg/L	0.03	0.25	A Wilson	5/27/2009
Thallium	U	µg/L	0.03	1	A Wilson	5/23/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/23/2009
Zinc	3.9J	µg/L	1.9	5	A Wilson	5/23/2009

Lab-Sample Number: K00002379004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA Ash Spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 05/14/2009 11:18
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations

pH: 7.11 pH Units
Chlorine, residual:
Conductivity: 51 uMHO
Temperature: 17.43
Dissolved Oxygen: 9.39 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Bass	5/20/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002379005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA Ash Spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 05/14/2009 11:26
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.18 pH Units
Chlorine, residual:
Conductivity: 65 uMHO
Temperature: 17.25
Dissolved Oxygen: 9.32 mg/L
Other:
Flow: CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/15/2009				S Ufegbu	5/15/2009

TEST: ICP			METHOD: EPA 200.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	300	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	305	µg/L	64.0	100	A Wilson	5/23/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/23/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/23/2009
Barium	33	µg/L	2.5	5	A Wilson	5/23/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/23/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/23/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/23/2009
Cobalt	0.40J	µg/L	0.04	1	A Wilson	5/23/2009
Copper	2.8	µg/L	0.38	1	A Wilson	5/23/2009
Lead	0.55J	µg/L	0.10	1	A Wilson	5/23/2009
Manganese	51	µg/L	0.42	1	A Wilson	5/23/2009
Nickel	1.6	µg/L	0.25	1	A Wilson	5/23/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/23/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/27/2009
Thallium	0.36J	µg/L	0.03	1	A Wilson	5/23/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/23/2009
Zinc	6.3	µg/L	1.9	5	A Wilson	5/23/2009

Lab-Sample Number: K00002379005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA Ash Spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 05/14/2009 11:26
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.18 pH Units
Chlorine, residual:
Conductivity: 65 uMHO
Temperature: 17.25
Dissolved Oxygen: 9.32 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Bass	5/20/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002379006
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA Ash Spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 05/14/2009 11:39
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.65 pH Units
Chlorine, residual:
Conductivity: 186 uMHO
Temperature: 15.60
Dissolved Oxygen: 10.25 mg/L
Other:
Flow: CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/15/2009				S Ufegbu	5/15/2009

TEST: ICP			METHOD: EPA 200.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	300	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	250	µg/L	64.0	100	A Wilson	5/23/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/23/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/23/2009
Barium	32	µg/L	2.5	5	A Wilson	5/23/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/23/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/23/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/23/2009
Cobalt	0.29J	µg/L	0.04	1	A Wilson	5/23/2009
Copper	2.1	µg/L	0.38	1	A Wilson	5/23/2009
Lead	0.41J	µg/L	0.10	1	A Wilson	5/23/2009
Manganese	36	µg/L	0.42	1	A Wilson	5/23/2009
Nickel	1.4	µg/L	0.25	1	A Wilson	5/23/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/23/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/27/2009
Thallium	0.060J	µg/L	0.03	1	A Wilson	5/23/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/23/2009
Zinc	3.2J	µg/L	1.9	5	A Wilson	5/23/2009

Lab-Sample Number: K00002379006
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA Ash Spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 05/14/2009 11:39
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.65 pH Units
Chlorine, residual:
Conductivity: 186 uMHO
Temperature: 15.60
Dissolved Oxygen: 10.25 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Bass	5/20/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002379007
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA Discharge Point
Sampler Project Name: TVA Ash Spill
Project Site No.: 5A
Station No.: KingAshOutF2
Date/Time Collected: 05/14/2009 11:47
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations
pH: 7.52 pH Units
Chlorine, residual:
Conductivity: 117 uMHO
Temperature: 18.94
Dissolved Oxygen: 9.28 mg/L
Other:
Flow: CFS

TEST: Digestion Metals			METHOD: EPA 200.2			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/15/2009				S Ufegbu	5/15/2009

TEST: ICP			METHOD: EPA 200.7			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	380	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS			METHOD: EPA 200.8			
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	460	µg/L	64.0	100	A Wilson	5/23/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/23/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/23/2009
Barium	37	µg/L	2.5	5	A Wilson	5/23/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/23/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/23/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/23/2009
Cobalt	0.43J	µg/L	0.04	1	A Wilson	5/23/2009
Copper	4.2	µg/L	0.38	1	A Wilson	5/23/2009
Lead	0.66J	µg/L	0.10	1	A Wilson	5/23/2009
Manganese	46	µg/L	0.42	1	A Wilson	5/23/2009
Nickel	1.5	µg/L	0.25	1	A Wilson	5/23/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/23/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/27/2009
Thallium	0.060J	µg/L	0.03	1	A Wilson	5/23/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/23/2009
Zinc	4.5J	µg/L	1.9	5	A Wilson	5/23/2009

Lab-Sample Number: K00002379007
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA Discharge Point
Sampler Project Name: TVA Ash Spill
Project Site No.: 5A
Station No.: KingAshOutF2
Date/Time Collected: 05/14/2009 11:47
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/14/2009 13:55
Received By: E McCrary

Field Determinations

pH: 7.52 pH Units
Chlorine, residual:
Conductivity: 117 uMHO
Temperature: 18.94
Dissolved Oxygen: 9.28 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.029	0.2	A Bass	5/20/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number:	K00002379008	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.72 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley R	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	228 uMHO
Project Site No.:	6	Temperature:	12.96
Station No.:	CLINC004.5RO	Dissolved Oxygen:	10.68 mg/L
Date/Time Collected:	05/14/2009 12:03	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	05/14/2009 13:55		
Received By:	E McCrary		

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/15/2009				S Ufegbu	5/15/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	300	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	200	µg/L	6.4	10	A Wilson	5/23/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/23/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/23/2009
Barium	34	µg/L	2.5	5	A Wilson	5/23/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/23/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/23/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/23/2009
Cobalt	0.29J	µg/L	0.04	1	A Wilson	5/23/2009
Copper	2.3	µg/L	0.38	1	A Wilson	5/23/2009
Lead	0.41J	µg/L	0.10	1	A Wilson	5/23/2009
Manganese	49	µg/L	0.42	1	A Wilson	5/23/2009
Nickel	1.7	µg/L	0.25	1	A Wilson	5/23/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/23/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/27/2009
Thallium	U	µg/L	0.03	1	A Wilson	5/23/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/23/2009
Zinc	3.5J	µg/L	1.9	5	A Wilson	5/23/2009

Lab-Sample Number:	K00002379008	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.72 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley R	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	228 uMHO
Project Site No.:	6	Temperature:	12.96
Station No.:	CLINC004.5RO	Dissolved Oxygen:	10.68 mg/L
Date/Time Collected:	05/14/2009 12:03	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	05/14/2009 13:55		
Received By:	E McCrary		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.03J	µg/L	0.029	0.2	A Bass	5/20/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected